

9th Class 2016

Math (Science)	Group-I	Paper-I
Time: 20 Minutes	(Objective Type)	Max Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- What should be added to complete the square of $x^4 + 64$:

- (a) $8x^2$ (b) $-8x^2$
(c) $16x^2$ ✓ (d) $4x^2$

2- Which order pair satisfy the equation $y = 2x$:

- (a) (1, 2) ✓ (b) (2, 1)
(c) (2, 2) (d) (1, 1)

3- In a parallelogram, opposite sides are ----.

- (a) Parallel ✓ (b) Concurrent
(c) Congruent (d) None of these

4- The medians of a triangle cut each other in the ratio ----.

- (a) 4 : 1 (b) 3 : 1
(c) 2 : 1 ✓ (d) 1 : 1

5- The right bisectors of the sides of a triangle are ----.

- (a) Congruent (b) Concurrent ✓
(c) Parallel (d) None of these

6- Imaginary part of $-i(3i + 2)$ is ----.

- (a) -2 ✓ (b) 2
(c) 3 (d) -3

7- $\log e = \text{----}$, where $e \approx 2.718$.

- (a) 0 (b) 1
(c) 0.4343 ✓ (d) ∞

- 8- Factors of $3x^2 - x - 2$ are ---- .
(a) $(x + 1)(3x - 2)$ (b) $(x + 1)(3x + 2)$
(c) $(x - 1)(3x - 2)$ (d) $(x - 1)(3x + 2)$ ✓
- 9- Distance between the points $(1, 0)$ and $(0, 1)$ is:
(a) 0 (b) $\sqrt{2}$ ✓
(c) 1 (d) 2
- 10- Unit of ratio is ---- .
(a) Second (b) Meter
(c) Kilogram (d) No unit ✓
- 11- The symbol used for "line" :
(a) \overline{AB} (b) $|AB|$
(c) \overleftrightarrow{AB} ✓ (d) \vec{AB}
- 12- Write $\sqrt[7]{x}$ in exponential form:
(a) $x^{1/7}$ ✓ (b) x
(c) x^7 (d) $x^{7/2}$
- 13- A triangle ---- is the union of a triangle and its interior.
(a) Region ✓ (b) Interior
(c) Exterior (d) Area
- 14- $(3 + \sqrt{2})(3 - \sqrt{2})$ is equal to:
(a) 7 ✓ (b) -7
(c) -1 (d) 1
- 15- $x = \text{----}$ is a solution of the inequality $-2 < x < \frac{3}{2}$.
(a) -5 (b) 3
(c) $\frac{3}{2}$ (d) 0 ✓